Student ID:_____ Seat No.:_____

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

DEPARTMENT OF COMPUTER APPLICATIONS

Program: Bachelor of Computer Applications - Batch-B

Semester-I Mid Semester Examination (Practical)

Date:19-09-2019 Day:Thursday Duration: 03:15PM- 04:15PM

BCA1112C04 Introduction to Programming using Python Lab Marks: **30**

INSTRUCTIONS:

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1. Attempt all problems.
2. In the beginning of each file, write the program objective, name of programmer, date of program creation, programming language and version of program.
3. Name your variables appropriately.
4. Add comments whenever necessary.
5. Prepare separate program file for every problem and save them in your respective Z:\ drive under PythonLabExam folder with the name <Set No><QNo>.py eg to save a file of Set A and Question 3 , save it as: Z:\PythonLabExam\AQ3.py
6. Prepare a MS Word document of the problem statement, your solution and at least two outputs. (Optional)

SET A

[6 x 5 = 30]

Q1. Write a program to enter your name and display your name n no of times.

Q2. Write a program to calculate bike's average consumption from the given total distance (integer value) traveled (in km) and spent fuel (in liters, float number – 2 decimal point).

Q3. Write a program to print table of 2

Q4. Write a program to calculate the distance between the two points.

Hint: The distance between two points (x1,y1) and (x2,y2) = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Q5. Write a program to display square and cube of odd nos. till 100.

Q6. Write a program to print name, age and percentage using format specifier as per following format:

Name: 20 left justified
Age: 20 right justified
Percent: 8.2 left justified in print() with %(format specifier)

End

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Sample problem and solution

Set A

Q1. Write a program to calculate area of a room.

Solution

```
## Q1. Write a program to calculate area of a room.

##############################################################################
##Program Objective: to calculate area of a room.
##Coded by: KNR
##Date: 17/09/2019 22:20
##Lang: Python 3.7.4
##Version: 1.0
##############################################################################

print("-------------------------------------------------")
lenghtOfRoom = float(input("Enter length:"))
breadthOfRoom = float(input("Enter breadth:"))
areaOfRoom = lenghtOfRoom * breadthOfRoom     # to calculate area
print("The area of the room is {0}".format(areaOfRoom))
print("-------------------------------------------------")
```

Note: Save this file in Z:\PythonLabExam\AQ1.py